OIPE

RAW SEQUENCE LISTING

DATE: 09/18/2001

PATENT APPLICATION: US/09/940,101

TIME: 10:06:56

Input Set : A:\GENENT.072A2.txt

Output Set: N:\CRF3\09182001\1940101.raw

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4 <110> APPLICANT: Gerritsen, Mary
             Sliwkowski, Mark X.
     7 <120> TITLE OF INVENTION: ErbB4 ANTAGONISTS
     10 <130> FILE REFERENCE: GENENT.072A2
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/940,101
                                                                ENTERED
C--> 12 <141> CURRENT FILING DATE: 2001-08-27
    12 <150> PRIOR APPLICATION NUMBER: 60/229,679
    13 <151> PRIOR FILING DATE: 2000-09-01
    15 <150> PRIOR APPLICATION NUMBER: 60/265,516
    16 <151> PRIOR FILING DATE: 2001-01-31
    18 <160> NUMBER OF SEQ ID NOS: 4
    20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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     25 <213> ORGANISM: Homo sapiens
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     30 gcaggaacgg agaataaact gagctctctc tctgacctgg aacagcagta ccgagccttg 180
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    34 ctttatgagg atcgatatgc cttggcaata tttttaaact acagaaaaga tggaaacttt 420
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     36 gaccagaaca aatteetttg ttatgeagae accatteatt ggeaagatat tgtteggaae 540
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     38 cataagteet gtactggeeg ttgetgggga cecacagaaa ateattgeea gaetttgaca 660
     39 aggacggtgt gtgcagaaca atgtgacggc agatgctacg gaccttacgt cagtgactgc 720
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     43 gtcaagaaat gtccacataa ctttgtggta gattccagtt cttgtgtgcg tgcctgccct 960
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    46 tccagtaaca ttgacaaatt cataaactgt accaagatca atgggaattt gatctttcta 1140
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58 gtggaaaaat gtccagatgg cttacagggg gcaaacagtt tcattttcaa gtatgctgat 1860 59 ccagatcggg agtgccaccc atgccatcca aactgcaccc aagggtgtaa cggtcccact 1920 60 agtcatgact gcatttacta cccatggacg ggccattcca ctttaccaca acatgctaga 1980 61 actoccotga ttgcagotgg agtaattggt gggctottca ttctggtoat tgtgggtotg 2040 62 acatttgctg tttatgttag aaggaagagc atcaaaaaga aaagagcctt gagaagattc 2100 63 ttggaaacag agttggtgga accattaact cccagtggca cagcacccaa tcaagctcaa 2160 64 cttcgtattt tgaaagaaac tgagctgaag agggtaaaag tccttggctc aggtgctttt 2220 65 ggaacggttt ataaaggtat ttgggtacct gaaggagaaa ctgtgaagat tcctgtggct 2280 66 attaagattc ttaatgagac aactggtccc aaggcaaatg tggagttcat ggatgaagct 2340 67 ctgatcatgg caagtatgga tcatccacac ctagtccggt tgctgggtgt gtgtctgagc 2400 68 ccaaccatcc agctggttac tcaacttatg ccccatggct gcctgttgga gtatgtccac 2460 69 gagcacaagg ataacattgg atcacaactg ctgcttaact ggtgtgtcca gatagctaag 2520 70 ggaatgatgt acctggaaga aagacgactc gttcatcggg atttggcagc ccgtaatgtc 2580 71 ttagtgaaat ctccaaacca tgtgaaaatc acagattttg ggctagccag actcttggaa 2640 72 ggagatgaaa aagagtacaa tgctgatgga ggaaagatgc caattaaatg gatggctctg 2700 73 gagtgtatac attacaggaa attcacccat cagagtgacg tttggagcta tggagttact 2760 74 atatgggaac tgatgacctt tggaggaaaa ccctatgatg gaattccaac gcgagaaatc 2820 75 cctgatttat tagagaaagg agaacgtttg cctcagcctc ccatctgcac tattgacgtt 2880 76 tacatqqtca tqqtcaaatq ttqqatqatt gatqctgaca gtagacctaa atttaaggaa 2940 77 ctggctgctg agttttcaag gatggctcga gaccctcaaa gatacctagt tattcagggt 3000 78 gatgatcgta tgaagcttcc cagtccaaat gacagcaagt tetttcagaa tetettggat 3060 79 gaagaggatt tggaagatat gatggatgct gaggagtact tggtccctca ggctttcaac 3120 80 atcccacctc ccatctatac ttccagagca agaattgact cgaataggag tgaaattgga 3180 81 cacagocoto otootgoota cacoocoatg toaggaaaco agtitigitata oogagatgga 3240 82 ggttttgctg ctgaacaagg agtgtctgtg ccctacagag ccccaactag cacaattcca 3300 83 gaageteetg tggeacaggg tgctactget gagatttttg atgacteetg etgtaatgge 3360 84 accetacgea agecagtgge acceeatgte caagaggaca gtagcaceca gaggtacagt 3420 85 gctgacccca ccgtgtttgc cccagaacgg agcccacgag gagagctgga tgaggaaggt 3480 86 tacatgactc ctatgcgaga caaacccaaa caagaatacc tgaatccagt ggaggagaac 3540 87 ccttttgttt ctcggagaaa aaatggagac cttcaagcat tggataatcc cgaatatcac 3600 88 aatgcatcca atggtccacc caaggccgag gatgagtatg tgaatgagcc actgtacctc 3660 89 aacacctttg ccaacacctt gggaaaagct gagtacctga agaacaacat actgtcaatg 3720 90 ccagagaagg ccaagaaagc gtttgacaac cctgactact ggaaccacag cctgccacct 3780 91 cggagcaccc ttcagcaccc agactacctg caggagtaca gcacaaaata tttttataaa 3840 92 cagaatgggc ggatccggcc tattgtggca gagaatcctg aatacctctc tgagttctcc 3900 93 ctgaagccag gcactgtgct gccgcctcca ccttacagac accggaatac tgtggtgtaa 3960 94 gctcagttgt ggttttttag gtggagagac acacctgctc caatttcccc accccctct 4020 95 ctttctctgg tggtcttcct tctaccccaa ggccagtagt tttgacactt cccagtggaa 4080 96 gatacagaga tgcaatgata gttatgtgct tacctaactt gaacattaga gggaaagact 4140 97 gaaagagaaa gataggagga accacaatgt ttcttcattt ctctgcatgg gttggtcagg 4200 98 agaatgaaac agctagagaa ggaccagaaa atgtaaggca atgctgccta ctatcaaact 4260 99 agetgteact ttttttettt ttettttet ttetttgttt etttettect ettettttt 4320 100 ttttttttt taaaqcaqat qqttqaaaca cccatqctat ctgttcctat ctgcaggaac 4380 101 tgatgtgtgc atatttagca tccctggaaa tcataataaa gtttccatta gaacaaaaga 4440 102 ataacatttt ctataacata tgatagtgtc tgaaattgag aatccagttt ctttccccag 4500 103 cagtttctgt cctagcaagt aagaatggcc aactcaactt tcataattta aaaatctcca 4560 105 ctctgaccga ttcctttata tttgctcccc tatttttggc tttaatttct aattgcaaag 4680 106 atgtttacat caaagcttct tcacagaatt taagcaagaa atattttaat atagtgaaat 4740





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108	tato	caaat	ta 1	tctt	cacco	ct ca	atcct	tta	c att	tttt	caac	atti	tttt	ttt	ctcca	ataaat	4860
																cagttc	
110	tct	gtggt	tc a	aggaa	aaact	a ct	gata	actti	t cag	ggggt	zgˈgˈc	ccaa	atga	ggg	aatc	cattga	4980
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112	gcad	cttaa	agc 1	tgtaa	attt	a ti	tgtt	ctt	t tto	ctgaa	actc	cati	tttg	gat	tttga	aatcaa	5100
113	gcaa	atato	gga a	agcaa	accag	gc aa	aatta	aacta	a att	taag	gtac	atti	tttaa	aaa	aaaga	agctaa	5160
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	7 atttctagta tgagactatt tatatgaagt agaaggtaac tct																
	B taataaaaag aaaaacacaa acattcaaag cttagggata ggtccttggg tcaaaagtt																
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136						70		5	F		75					80	
		Glu	Val	Thr	Glv		Val	Leu	Val	Ala		Asn	Gln	Phe	Arg	Tyr	
138					85	-1-				90					95	_1 -	
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140				100			5		105	5	4		-	110			
	Asp	Ara	Tvr		Leu	Ala	Ile	Phe		Asn	Tvr	Arq	Lvs	Asp	Gly	Asn	
142		5	115					120					125	*	-		
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144		130		02			135		-1-			140					
	Glv		۷al	Ͳvr	Val	Asp		Asn	Lvs	Phe	Leu		Tvr	Ala	Asp	Thr	
	145			-1-		150	01				155	010	-1-			160	
		His	Ψтр	Gln	Asp		Val	Ara	Asn'	Pro		Pro	Ser	Asn	Leu		
148	110			0111											175		
	T.211														Lys		
150	LCU	, u i	DCI	180		O T Y	501	561	185	~ ₁ 3		*** 9	<u> </u>	190	-10		
	Cve	Пhr	Glv		Cvc	Фтъ	Glv	Pro		Glu	Δcn	His	Cvs		Thr	T.e.u	
152	Cys	T 11T	195	nı y	CYS	11 P	СТУ	200	T11T	JIU	ron,	1113	205	OTII	T 11T		
	Thr	Δra		Va 1	Cve	Δls	Glu		Cvc	Acn	G1 v	Δrσ		ጥላንጕ	Gly	Pro	
154	TIIT	210	T 11T	٧ат	Cys	nia	215	GIII	Cys	rsb	GLY	220	Cys	- y -	OLY	110	
	Фυν		Sor	Δen	Cve	Cve		Δrσ	Glu	Cve	Δla		Glv	Cvc	Ser	Glv	
	225	val	261	rsh	Cys	230	1113	n.y	GIU	Cys	235	O T Y	CLY	Cys	561	240	
		T.v.c	Δen	Пhr	Aen		Dhe	Δla	Cve	Met		Phe	Asn	Agn	Ser		
10/	-10	пÃр	чэЬ	TIIT	тэр	Cys	FIIE	TTC	Cys	IIC C	UOII	FIIE	UOII	чэр	PET	3 ± Y	





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1 5 0					245					250					255	
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160	Ата	Cys	val	260	GIII	Cys	PIO	GIII	265	File	val	тут	ASII	270	T 111	1111
	Dho	Cln	Tou		uic	λan	Dho	λcn	Ala	Lvc	Птт	Πhr	Пагт		λla	Dhe
162	FIIC	GIII	275	GIU	1115	ASII	riic	280	AIG	шуз	TYL	1111	285	OLY	niu	1 110
	Cvc	Wal	•	Lvc	Cvc	Dro	Hic		Phe	Val	Val	Δen		Ser	Ser	Cvs
164	Cys	290	пуз	цуз	Cys	FIO	295	LOII	rne	Val	Val	300	OCI	001	001	CID
	Wal		λla	Cvc	Dro	Ser		T.vc	Met	Glu	Val		Glu	Δen	Glv	Tle
	305	Arg	AIG	Cys	110	310	561	шуз	ricc	GIU	315	Gra	Olu	no		320
		Mot	Cve	Tare	Pro		Пhr	Δen	Ile	Cvs		T.vs	Δla	Cvs	Asp	
168	цуз	1100	0,3	ייי	325	0,5	1111	p		330		2,0		010	335	0-1
	Tle	Glv	Thr	Glv		Leu	Met	Ser	Ala		Thr	Val	Asp	Ser		Asn
170	110	017		340	001	Doa	1100	001	345	0				350		
	Tle	Asn	T.VS		Tle	Asn	Cvs	Thr	Lys	Tle	Asn	Glv	Asn		Ile	Phe
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174	шеч	370		011			375			-2-		380				
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184		450					455	-			-	460		-		
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202			595					600					605			
	Asp		Asp	Arg	Glu	Cys		Pro	Cys	His	Pro		Cys	Thr	Gln	Gly
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	Val	Tyr		Arg	Arg	Lys	Ser		Lys	Lys	Lys	Arg		Leu	Arg	Arg
212		_	675	_,		_		680	_	-	m)		685	01	m1	
	Phe		GIu	Thr	GIU	Leu		GLU	Pro	Leu	Thr		ser	GIĀ	Thr	Ala
214	_	690	~ 3		~ 7		695	-1-	.	.	a 1	700	61	T	T	3
		Asn	GIn	Ala	GIn		Arg	ıте	Leu	гăг		Thr	GLU	ьeu	Lys	
	705	_		.	01	710	61		D1	G1	715	77-7	m	T	~1··	720
	Val	ьys	vaı	Leu		Ser	GIA	АТа	Pne		THE	val	TAL	гуѕ	Gly 735	TTE
218	_	1	_	a 1	725	61	m1	77 - 7	T	730	D	37- 3	31-	T1_		T1.
	Trp	val	Pro		GIĀ	GIU		vaı	ьуs 745	ire	Pro	vaı	Ата	750	Lys	ire
220	.		a 1	740	(T)	~ 1	D	T		7	77-7	C1	Dho		7.00	C1.,
	Leu	Asn		Thr	Thr	GIY	Pro	туs 760	Ата	ASII	Val	GIU	765	Met	Asp	GIU
222	31-	T 0	755	Wot	X 1 ~	Com	Mot		uio	Dro	uic	T 011		λνα	Tou	Leu
	Ald		ше	Met	Ald	ser	775	ASP	птъ	PIO	пть	780	vai	AIG	Leu	шец
224	c1	770	C	T 0.11	Com	Dro	-	т1 о	Cln	Lou	Val		Cln	LOU	Met	Pro
	_	Val	Cys	ьeu	261	790	TIII	TIE	GIII	ьеи	795	1111	GIII	пеп	Met	800
	785	C1	Crro	T 011	T 011		Пттъ	Wa 1	иiс	Clu		Tvc	λen	λen	Ile	
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230	261	GIII	ьeu	820	ьец	ASII	пр	Cys	825	GIII	116	АТА	шуъ	830	Het	rict
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234	val	850	vai	בעב	001	110	855		,		110	860			· · · · · · ·	
	Δla		T.e.u	T.e.u	Glu	Glv		Glu	Lvs	Glu	Tvr		Ala	Asp	Gly	Glv
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238	_1_				885					890	-1-			-1-	895	-
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240				900		-		-	905	•	-			910	-	1
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242			915		-	-	-	920	-	-	-		925			
	Ile	Pro	Asp	Leu	Leu	Glu	Lys	Gly	Glu	Arg	Leu	Pro	Gln	Pro	Pro	Ile
244		930	-				935	-		_		940				
245	Cys	Thr	Ile	Asp	Val	Tyr	Met	Val	Met	Val	Lys	Cys	Trp	Met	Ile	Asp
	945			•		950					955					960
247	Ala	Asp	Ser	Arg	Pro	Lys	Phe	Lys	Glu	Leu	Ala	Ala	Glu	Phe	Ser	Arg
248		_		=	965	-		=		970					975	
249	Met	Ala	Arg	Asp	Pro	Gln	Arg	Tyr	Leu	Val	Ile	Gln	Gly	Asp	Asp	Arg
250			=	980					985					990		
251	Met	Lys	Leu	Pro	Ser	Pro	Asn	Asp	Ser	Lys	Phe	Phe	Gln	Asn	Leu	Leu
252		-	995					1000	C				100	5	•	
253	Asp	Glu	Glu	Asp	Leu	Glu	Asp	Met	Met	Asp	Ala	Glu	Glu	Tyr	Leu	Val
254		1010)				101	5			,	1020	0			
255	Pro	Gln	Ala	Phe	Asn	Ile	Pro	Pro	Pro	Ile	Tyr	Thr	Ser	Arg	Ala	Arg





VERIFICATION SUMMARY

PATENT APPLICATION: US/09/940,101

DATE: 09/18/2001 TIME: 10:06:57

Input Set : A:\GENENT.072A2.txt

Output Set: N:\CRF3\09182001\I940101.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date